

## **IN THE CLAIMS:**

### **Amendments to the Claims**

Please amend claims 7, 10-12, 14 and 16 and please rewrite claims 13 and 15 in independent form as shown below, and please cancel claims 8, 9 and 20 without prejudice or disclaimer of the subject matter thereof.

### **Listing of Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

Claims 1-6 (canceled)

7. (currently amended) A recording medium comprising:

a disk-shaped substrate;

at least one track being provided on the disk-shaped substrate;

a zone including said at least one track therein;

wherein said zone stores a lookup table having information about edge shifting values of at least one of a leading and trailing edge of at least one recording pulse; ~~and~~

wherein said edge shifting values are determined by combinations of a length  $M(n)$  of a mark being currently written and at least one of a length  $s(n-1)$  of a space precedent to the mark and a length  $s(n+1)$  of a space subsequent to the mark, and which can be positive and negative; and

wherein said edge shifting values are at least a leading edge of a first recording pulse and a trailing edge of a last recording pulse of a plurality of recording pulses.

Claims 8 and 9 (canceled)

10. (currently amended) A recording medium according to claim 7, wherein said edge shifting values are for ~~a~~the leading edge and a trailing edge of ~~a~~the first recording pulse ~~and a trailing edge of a last recording pulse of a plurality of recording pulses.~~

11. (currently amended) A recording medium according to claim 7, wherein said edge shifting values are for ~~a~~the leading edge of ~~a~~the first recording pulse and a leading edge and a trailing edge of ~~a~~the last recording pulse of ~~a~~the plurality of recording pulses.

12. (currently amended) A recording medium according to claim 7, wherein said edge shifting values are for ~~a~~the leading and trailing edge of each of the first and ~~a~~the last recording pulse of a plurality of recording pulses.

13. (currently amended) A recording medium ~~according to claim 7,~~  
comprising:

a disk-shaped substrate;

at least one track being provided on the disk-shaped substrate;

a zone including said at least one track therein;

wherein said zone stores a lookup table having information about edge shifting values of at least one of a leading and trailing edge of at least one recording pulse;

wherein said edge shifting values are determined by combinations of a length  $M(n)$  of a mark being currently written and at least one of a length  $s(n-1)$  of a space precedent to the mark and a length  $s(n+1)$  of a space subsequent to the mark, and which can be positive and negative; and

wherein said edge shifting values are for a leading edge of a first recording pulse of a plurality of recording pulses.

14. (currently amended) A recording medium according to claim 7, wherein said edge shifting values are for ~~a~~the leading edge and a trailing edge of ~~a~~the first recording pulse of ~~a~~the plurality of recording pulses.

15. (currently amended) A recording medium ~~according to claim 7,~~  
comprising:

a disk-shaped substrate;

at least one track being provided on the disk-shaped substrate;

a zone including said at least one track therein;

wherein said zone stores a lookup table having information about edge shifting values of at least one of a leading and trailing edge of at least one recording pulse;

wherein said edge shifting values are determined by combinations of a length  $M(n)$  of a mark being currently written and at least one of a length  $s(n-1)$  of a space precedent to the mark and a length  $s(n+1)$  of a space subsequent to the mark, and which can be positive and negative; and

wherein said edge shifting values are for a trailing edge of a last recording pulse of a plurality of recording pulses.

16. (currently amended) A recording medium according to claim ~~7~~ 15, wherein said edge shifting values are for a leading edge and the trailing edge of a the last recording pulse of ~~a~~ the plurality of recording pulses.

Claims 17 and 18 (canceled)

19. (previously presented) A recording medium according to claim 7, wherein said edge shifting values are for at least one of a leading and trailing edge of one recording pulse for recording a mark  $3T_w$  long, where  $T_w$  is a time width.

Claim 20 (canceled)